

Ser. No. 10/772,063
Response to Office Action of 07/12/2005

Attorney Docket: D0932-00447

Listing of Claims

1. (Currently amended) A building insulation comprising:
a cellulosic facing, comprising at least one antifungal/antimicrobial agent present in an amount in weight of less than 200 ppm of the dry weight of the cellulosic facing; and
an insulation layer adhered to said cellulosic facing by an adhesive, said insulation layer comprising randomly oriented inorganic fibers bonded together with a binder.
2. (Original) The building insulation of claim 1 wherein said antifungal/antimicrobial agent is nontoxic and noncarcinogenic when said facing is contacted by humans.
3. (Original) The building insulation of claim 1 wherein said antifungal/antimicrobial agent is heat resistant to a temperature of at least about 250°F.
4. (Previously amended) The building insulation of claim 1 wherein said antifungal/antimicrobial agent is heat resistant when contacted with molten bituminous adhesive;
and
said insulation layer is bonded to said cellulosic facing with a bituminous adhesive.
5. (Original) The building insulation of claim 1, wherein the cellulosic facing is Kraft paper.
6. (Original) The building insulation of claim 1, wherein said cellulosic facing has a basis weight of about 20-60 lbs. per 3000 ft².
7. (Previously amended) The building insulation of claim 1, wherein said antifungal/antimicrobial agent comprises one or more of the following: chlorine, organo-mercurials, chlorinated phenols, organo-bromides, organo-sulphur compounds, copper sulfate, 2, 4, 4'- trichloro-2' hydroxydiphenol, 5-chloro-2-(2, 4-dichlorophenoxy) phenol; diiodomethyl-p-PTM126853.1

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tolylsulfone; 2-bromo-2 nitropropane-1, 3-diol (BNPD); sodium 2-pyridinethiol-1-oxide (PEO); 2-(thiocyano-methyl thio) benzothiazole (TCMTB), 3-iodo-2 propynyl-butyl carbamate; phenyl-(2-cyano-2 chlorovinyl) sulfone; N, N-dimethyl-N'-phenyl-(N'-fluorodichloromethylthio) sulfamide; 2, 2-dibromo-2-nitrilopropionamide; 3,4-dichloro-1, 2-dithiol-3-one; N-4-dihydroxy-alpha-oxobenzene-ethanimidoyl chloride; methylene-bis-thiocyanate; dodecylguanidine hydrochloride; sodium 2-pyridinethiol-1-oxide; trihaloalkyl sulfone; bis (trichloro methyl) sulfone (BTCMS), chlorhexidine; polyhexamethylene biguanide (PHMB), glutaraldehyde, a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one + 2-methyl-4-isothiazolin-3-one and derivations, homologues and combinations thereof.

8. (Original) The building insulation of claim 1, wherein said insulation has a R-value of between 5 and 100.

9. (Original) The building insulation of claim 1, wherein said insulation passes ASTM C1338 when exposed to a microorganism.

10. (Original) The building insulation of claim 1, wherein said antifungal/antimicrobial agent presents no significant toxic residue on said cellulosic facing.

11. (Canceled)

12. (Original) The building insulation of claim 4, wherein said antifungal/antimicrobial agent is present in said cellulosic facing in a level of about 3-180 ppm.

13. (Original) The building insulation of claim 4 wherein said antifungal/antimicrobial agent is added to the furnish pulp used to make said cellulosic facing.

14. (Currently amended) A building insulation comprising a cellulosic facing, comprising at least one antifungal/antimicrobial agent added to the furnish pulp used to make said cellulosic facing in a ~~quantity weight~~ of less than 200 ppm ~~based on~~ of the dry weight of the cellulosic facing, but high enough to render said facing mold resistant in accordance with ASTM

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C1338; and

an insulation layer adhered to said cellulosic facing by an adhesive, said insulation layer comprising randomly oriented inorganic fibers bonded together with a binder.

15. (Original) The building insulation of claim 14, wherein said cellulosic facing is Kraft paper having a basis weight of about 20-60 lbs. per 3000 ft.².

16. (Original) The building insulation of claim 15, wherein said Kraft paper has a bituminous vapor barrier coating thereon.

17. (Previously amended) The building insulation of claim 16, wherein said antifungal/antimicrobial agent is resistant to a temperature of at least about 250°F.

18. – 37. (Canceled)

38. (Currently amended) A building insulation batt comprising:
a cellulosic facing comprising at least one antifungal/antimicrobial agent present in an amount in weight of less than 200 ppm of the dry weight of the cellulosic facing, wherein the antifungal/antimicrobial agent is nontoxic and noncarcinogenic when contacting the skin of a human being; and

an insulation layer adhered to said cellulosic facing by an adhesive, said insulation layer comprising randomly oriented inorganic fibers bonded together with a binder.

39. (Currently amended) A building insulation comprising:
a cellulosic facing comprising at least one antifungal/antimicrobial agent present in an amount in weight of less than 200 ppm of the dry weight of the cellulosic facing, which is heat resistant to a temperature of at least about 250° F; and

an insulation layer bonded to said cellulosic facing with an adhesive, said insulation layer comprising randomly oriented inorganic fibers bonded together with a binder.

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40. (Currently amended) A building insulation comprising:
a cellulosic facing comprising at least one antifungal/antimicrobial agent present in an amount in weight of less than 200 ppm of the dry weight of the cellulosic facing, which is heat resistant when contacted with molten bituminous adhesive; and
an insulation layer bonded to said cellulosic facing with a bituminous adhesive, said insulation layer comprising randomly oriented inorganic fibers bonded together with a binder.

41. (Currently amended) A facing for an insulation product, comprising a Kraft paper having adhered to a first surface thereof by a bituminous adhesive, said Kraft paper containing a biocide in the amount in weight of less than 200 ppm of the dry weight of the cellulosic facing, which is effective in achieving no observable fungi or mildew growth when tested in accordance with the ASTM C-1338 test method.